ABSTRACT OF THE DISCLOSURE

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The present invention relates to novel peptides charge and hydrophobicity increased with substituting one or more amino acids of CA-MA peptide (CA) and magainin 2(MA) were in which cecropin A conjugated and pharmaceutical compositions containing thereof. More precisely, the present invention relates to synthetic peptides prepared by substituting one or more amino acids of CA-MA peptide represented by the SEQ. ID. NO: 1 with amino acids having + charge and hydrophobicity and anti-bacterial, anti-fungal and anticancer compositions containing thereof. The synthetic peptides of the present invention have no cytotoxicity but have excellent anti-bacterial, antifungal and anticancer activity, leading in an effective use thereof as a safe anticancer agent and antibiotics.